

Notice of Allowability

Application No.

10/064,718

Examiner

Christopher P Bruenjes

Applicant(s)

HARGETT ET AL

Art Unit

1772

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed January 7, 2005.
2. ☒ The allowed claim(s) is/are 1,5,7,8,13-15,36 and 38.
3. ☒ The drawings filed on 09 August 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

In the first sentence of the specification, add ", now patent number 6,534,140" after 1999.

3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the closest prior art is Giraud and Bennett. Giraud fails to teach the inner or outer layers formed of tetrafluoroethylene. Giraud is non-analogous art and there is no motivation to modify Giraud to arrive at the limitations listed above for an obviousness rejection. Bennett fails to teach the wound cylindrical layer of "contiguous yarns". Bennett teaches a different fiber-reinforced structure, which teaches away from the claimed invention, because the Bennett

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vessel is intended to distort under high pressures as a safety feature. Once the Bennett vessel is distorted, however, it is no longer useful. The claimed invention provides an improvement over the Bennett structure by using contiguous yarns that will not distort and therefore the vessel can be reused. Claims 5 and 36 are dependent on claim 1.

Regarding claim 7, the closest prior art is Giraud and Bennett. Giraud fails to teach adding multiple concentric layers of polymer and textiles between the inner and outer polymeric layers. Giraud is non-analogous art and there is no motivation to modify Giraud to arrive at the limitations listed above for an obviousness rejection. Bennett fails to teach the wound cylindrical layer of "contiguous yarns". Bennett teaches a different fiber-reinforced structure, which teaches away from the claimed invention, because the Bennett vessel is intended to distort under high pressures as a safety feature. Once the Bennett vessel is distorted, however, it is no longer useful. The claimed invention provides an improvement over the Bennett structure by using contiguous yarns that will not distort and therefore the vessel can be reused. Claim 8 is dependent on claim 7.

Regarding claim 38, the closest prior art is Giraud and Bennett. Giraud fails to teach a microwave-transparent pressure

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resistant reaction cylinder. Giraud teaches that the composite material is a pillar and therefore, teaches a way from using the composite material to surround a microwave-transparent pressure resistant reaction cylinder. Bennett fails to teach the wound cylindrical layer of "contiguous yarns". Bennett teaches a different fiber-reinforced structure, which teaches away from the claimed invention, because the Bennett vessel is intended to distort under high pressures as a safety feature. Once the Bennett vessel is distorted, however, it is no longer useful. The claimed invention provides an improvement over the Bennett structure by using contiguous yarns that will not distort and therefore the vessel can be reused. Claims 13-15 are dependent on claim 38.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P Bruenjes whose telephone number is 571-272-1489.

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The examiner can normally be reached on Monday thru Friday from 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher P Bruenjes
Examiner
Art Unit 1772

CPB
CPB
March 16, 2005


HAROLD PYON
SUPERVISORY PATENT EXAMINER
1772

3/16/05